

**Amendments to the Claims:**

This listing of claims replaces all prior versions, and listings, of claims in this application.

**Listing of Claims:**

1. (Currently Amended) A vehicle classification system comprising:
  - a payment point;
  - a classification loop array installed on a surface of a traveling path of a vehicle at a location prior to the payment point, wherein the classification loop array generates profile information characterizing the vehicle when the vehicle travels over the classification loop array;
    - an intelligent queue loop located between the classification loop array and the payment point, wherein the intelligent queue loop is configured to indicate changes in electromagnetic field which are processed to produce information that is used to ensure that the vehicle is in a proper queue sequence;
  - a microprocessor for receiving the profile information, wherein the microprocessor uses the profile information to assign a predefined classification to the vehicle, and
  - means for receiving a fare associated with the predefined classification at the payment point.

2. (Original) The system of claim 1, wherein the profile information represents changes of inductance which can be interpreted to identify one or more of an axle count of the vehicle, an axle spacing of the vehicle, a speed of the vehicle, and a chassis height of the vehicle.

3. (Original) The system of claim 1, further comprising a vehicle library accessible to the microprocessor, wherein the vehicle library comprises the predefined classification.

4. (Previously Amended) The system of claim 1, wherein the fare is displayed at the payment point.

5. (Previously Amended) The system of claim 1, wherein the payment point is adapted to notify an operator of the vehicle of the fare.

6. (Previously Amended) The system of claim 1, wherein the location of the classification loop array is between about 65 feet and about 110 feet from the payment point.

7. (Cancelled)

8. (Currently Amended) The system of claim ~~7~~1, further comprising a predefined classification listing in sequence of vehicles in queue, wherein the microprocessor dispenses the vehicle's queue in sequence to the operator.

9. (Original) A toll collection system comprising:

a classification loop array installed on a surface of a toll lane for sensing a vehicle moving through the toll lane, wherein the classification loop array is adapted to indicate changes in electromagnetic field which can be processed to produce initial signature information and wheel assembly information characterizing the vehicle;

a microprocessor for receiving the initial signature information and the wheel assembly information from the classification loop array, wherein the microprocessor uses the initial signature information and the wheel assembly information to assign a predefined classification to the vehicle;

an intelligent queue loop in communication with the microprocessor, wherein the intelligent queue loop is adapted to indicate changes in electromagnetic field which can be processed to produce subsequent signature information and wheel assembly information characterizing the vehicle, wherein the subsequent signature information is used to reconfirm the initial signature information to ensure that the vehicle is in a proper queue sequence;

means for associating a fare with the vehicle; and

means for receiving the fare.

10. (Original) The system of claim 9, wherein each of the initial signature information and the subsequent signature information represents changes of inductance which can be interpreted to identify one or more of an axle count of the vehicle, an axle spacing of the vehicle, a speed of the vehicle, and a chassis height of the vehicle.

11. (Original) The system of claim 9, wherein the means for receiving is located at a payment point along the toll lane.

12. (Original) The system of claim 11, wherein the classification loop array is located at a first distance from the payment point and the intelligent queue loop is located at a second distance from the payment point.

13. (Original) The system of claim 9, further comprising means for queuing more than one vehicles in sequence.

14. (Currently Amended) A toll collection system comprising:  
means for generating initial signature information and wheel assembly information characterizing a vehicle that is moving in a toll lane, wherein each of the initial signature information and the wheel assembly information represents changes of inductance which can be interpreted to identify one or more of an axle count of the vehicle, an axle spacing of the vehicle, a speed of the vehicle, and a chassis height of the vehicle;

means for assigning a predefined classification to the vehicle based at least in part on the initial signature information and the wheel assembly information;

~~means for queuing more than one vehicles in sequence;~~ an intelligent queue loop configured to indicate changes in electromagnetic field which are processed to produce information that is used to ensure that the vehicle is in a proper queue sequence;

means for determining a fare appropriate for the vehicle; and

means for receiving the fare.

15. (Original) The system of claim 14, wherein the generating means comprises at least one wheel assembly loop and at least one signature loop, wherein the wheel assembly loop produces the wheel assembly information and the signature loop produces the initial signature information.

16. (Original) The system of claim 14, wherein the generating means comprises a left wheel assembly loop and a right wheel assembly loop, wherein the left wheel assembly loop and the right wheel assembly loop are aligned to correspond with a left side and a right side of the vehicle, respectively.

17. (Original) The system of claim 14, wherein the generating means comprises a front signature loop, a pair of wheel assembly loops, and a rear signature loop, wherein the pair of wheel assembly loops are located in between the front signature loop and the rear signature loop.

18. (Original) The system of claim 14, wherein the generating means comprises a front wheel assembly loop, a signature loop, and a rear wheel assembly loop, wherein the signature loop is located in between the front wheel assembly loop and the rear wheel assembly loop.

19. (Original) The system of claim 14, wherein the generating means comprises a bi-symmetrical offset wheel assembly loop characterized by a left member and a right member, wherein the left member and the right member are aligned to correspond with a left side and a right side of the vehicle, respectively.

20. (Original) The system of claim 14, further comprising means for verifying a presence of the vehicle at a payment point along the toll lane.